

No.

200700307



# THE UNITED STATES OF AMERICA

**TO ALL TO WHOM THESE PRESENTS SHALL COME:**

**Pioneer Hi-Bred International, Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

An application requesting a certificate of protection for an alleged distinct variety of sexually reproduced, or tuber propagated plant, the name and description of which are contained in the application and exhibits, a copy of which is hereunto annexed and made a part hereof, and the various requirements of LAW in such cases made and provided have been complied with, and the title thereto is, from the records of the PLANT VARIETY PROTECTION OFFICE, in the applicant(s) indicated in the said copy, and Whereas, upon due examination made, the said applicant(s) is (are) adjudged to be entitled to a certificate of plant variety protection under the LAW.

Now, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of TWENTY years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or conditioning it for propagation, or stocking it for any of the above purposes, or using it in producing a hybrid or different therefrom, to the extent provided by the PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'PHCHP'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this tenth day of November, in the year two thousand and ten.

Attest:



Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

Secretary of Agriculture






U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER  <b>Pioneer Hi-Bred International, Inc.</b>		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME		3. VARIETY NAME  <b>PHCHP</b>	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)  <b>7301 NW 62<sup>nd</sup> Avenue Johnston, IA 50131-0085</b>		5. TELEPHONE (include area code)  <b>515/270-4051</b>		FOR OFFICIAL USE ONLY PVPO NUMBER <b>#200700307</b> FILING DATE <b>May 7, 2007</b>	
		6. FAX (include area code)  <b>515/253-2125</b>			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.)  <b>Corporation</b>		8. IF INCORPORATED, GIVE STATE OF INCORPORATION  <b>Iowa</b>		9. DATE OF INCORPORATION  <b>March 5, 1999</b>	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)  <b>Steven R. Anderson Research and Product Development P.O. Box 85 1004 Johnston, IA 50131-0085 1004</b>				FILING AND EXAMINATION FEES: \$ <b>4382.00</b> DATE <b>5/7/07</b> CERTIFICATION FEE: \$ <b>768 + 41</b> DATE <b>10/15/10</b>	
11. TELEPHONE (Include area code)  <b>515/270-4051</b>		12. FAX (Include area code) <b>22 88</b> <b>515/253-2125</b>		13. E-MAIL  <b>steven.anderson@pioneer.com</b>	
14. CROP KIND (Common Name)  <b>Corn</b>		16. FAMILY NAME (Botanical)  <b>Gramineae</b>		18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL)  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP  <b>Zea Mays</b>		17. IS THE VARIETY A FIRST GENERATION HYBRID?  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (3,000 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$4,382), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)				20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)  <input type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no", go to item 23) 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?  <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED 22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?  <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.  <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?  <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)				24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?  <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.  The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER		SIGNATURE OF OWNER  			
NAME (Please print or type)		NAME (Please print or type)  <b>Steven R. Anderson</b>			
CAPACITY OR TITLE		CAPACITY OR TITLE  <b>Research Scientist</b>		DATE  <b>5-4-2007</b>	

(See reverse for instructions and information collection burden statement)

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**GENERAL INSTRUCTIONS:** To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be **received** in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) **NEW:** With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety *per se*, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130.97.131, 97.175(h) of the Regulations and Rules of Practice.)

**Plant Variety Protection Office**  
**Telephone: (301) 504-5518 FAX: (301) 504-5291**  
**General E-mail: PVPOmail@usda.gov**  
**Homepage: <http://www.ams.usda.gov/science/pvpo/PVPindex.htm>**

#### **SPECIFIC INSTRUCTIONS:**

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. <http://www.ams.usda.gov/lsg/seed.htm>.

#### **ITEM**

- 19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
  - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

**22. CONTINUED FROM FRONT** (Please provide a statement as to the limitation and sequence of generations that may be certified.)

**23. CONTINUED FROM FRONT** (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

November 1, 2006 (United States), January 19, 2007 (Italy), March 19, 2007 (Turkey)

**24. CONTINUED FROM FRONT** (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

USPTO 1/31/2007 Application No. 11/669,263 Patent No. 7511205, EU CVPO 7/17/2007 File No. 20071590 Grant No. 22175.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status or familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, DC 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382125 (TDD). USDA is an equal opportunity provider and employer.



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**Exhibit A. Origin and Breeding History for PHCHP**

Pedigree: PH58C/PH2T6)X613311X

Pioneer Line PHCHP, *Zea mays L.*, a yellow endosperm corn inbred, was developed by Pioneer Hi-Bred International, Inc. from the single cross hybrid PH58C (PVP Certificate No. 200300232) X PH2T6 using the pedigree method of plant breeding. Varieties PH58C and PH2T6 are proprietary inbred lines of Pioneer Hi-Bred International, Inc. Variety PH2T6 was derived by pedigree selection from PHNG2 X PHRF1. Variety PHRF1 was derived by pedigree selection from PHP02 (PVP Certificate Number 8800212) X PHR63 (PVP Certificate Number 8900321). Selfing was practiced from the above hybrid for 7 generations using pedigree selection. During line development, crosses were made to inbred testers for the purpose of estimating the line's combining ability. Yield trials were grown at Johnston, Iowa as well as other Pioneer research locations. After initial testing, additional hybrid combinations have been evaluated and subsequent generations of the line have been grown and hand-pollinated with observations again made for uniformity.

Variety PHCHP has shown uniformity and stability for all traits as described in Exhibit C - "Objective Description of Variety". It has been self-pollinated and ear-rowed 5 generations with careful attention paid to selection criteria and uniformity of plant type to assure genetic homozygosity and phenotypic stability. The line has been increased both by hand and in isolated fields with continued observations for uniformity and stability, and for 3 generations during the final stages of inbred development and seed multiplication. Very high standards for genetic purity have been established morphologically using field observations and using sound lab molecular marker methodology.

No variant traits have been observed or are expected in PHCHP.

The criteria used in the selection of PHCHP were yield, both per se and in hybrid combinations. Late season plant health, grain quality, and stalk lodging resistance, were important criteria considered during selection. Other selection criteria include: ability to germinate in adverse conditions, disease and insect resistance, pollen yield and tassel size.

\* PHNG2 was derived by pedigree selection from PHP02 (PVP Certificate No. 8800212) and PHW89. PHW89 was derived from G35 (PVP Certificate No. 8300140) and PHG44. PHG44 was derived from variety 207 (PVP Certificate No. 8300144) and PH891. PH891 was derived by pedigree selection. The majority of the pedigree relative contribution to the derivation of PH891 was B14, A556 A509, I205, IDT, MINN49, and Troyer Reid.

JMS  
7/7/10

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**Exhibit A: Developmental History for PHCHP**

Pedigree Grown Season/Year	Inbreeding Level of Pedigree Grown
PH58C	F0
PH2T6	F0
PH58C/PH2T6 1997	F1
PH58C/PH2T6)X 1998	F2
PH58C/PH2T6)X6 1999	F3
PH58C/PH2T6)X61 2000	F4
PH58C/PH2T6)X613 2000	F5
PH58C/PH2T6)X6133 2001	F6
PH58C/PH2T6)X61331 2002	F7
PH58C/PH2T6)X613311 2004	F8
PH58C/PH2T6)X613311X	F9 (SEED)

\*PHCHP was selfed and ear-rowed from F3 through F8 generation.

#Uniformity and stability were established from F6 through F8 generation and beyond when seed supplies were increased.

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**Exhibit B: Novelty Statement**

Variety PHCHP mostly resembles Pioneer Hi-Bred International, Inc. proprietary inbred line PHCND (PVP Certificate No. 200500230). Table 1 shows two sample t-tests on data collected primarily in Johnston and Dallas Center, Iowa in 2005 and 2006. The traits collectively show measurable differences between the two varieties.

**Exhibit B: Novelty Statement**

Variety PHCHP has a greater ear weight (163.7 g vs 125.0 g) than variety PHCND (Table 1).

Variety PHCHP has a shorter husk extension (2.3 cm vs 5.0 cm) than variety PHCND (Table 1).

Variety PHCHP has a greater leaf length (86.5 cm vs 77.3 cm) than variety PHCND (Table 1).

Variety PHCHP has a greater tassel central spike length (30.4 cm vs 22.5 cm) than variety PHCND (Table 1).

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# Exhibit B: Novelty Statement Table(s)

Table 1: Data from Johnston and Dallas Center, Iowa in 2005 and 2006 presented by trait, across years, and broken out by year. Data are supporting evidence for differences between PHCHP and PHCND. Varieties were grown at 2 locations in 2005 and 3 locations in 2006 where each location had different environmental conditions. Environments had different planting dates and were in different fields. A two-sample t-test was used to compare differences between means.

Ear weight (g)																
Level	Station	Year	Variety-1	Variety-2	Cnt-1	Cnt-2	Mean-1	Mean-2	Mean_Diff	StDev-1	StDev-2	StErr-1	StErr-2	DF	t-Value	Prob_Pool
1. Over All			PHCHP	PHCND	25	25	163.7	125.0	38.7	16.370	17.128	3.274	3.426	48	8.2	0.000
2. Year		2005	PHCHP	PHCND	10	10	163.0	137.0	26.0	13.250	18.803	4.190	5.946	18	3.6	0.002
2. Year		2006	PHCHP	PHCND	15	15	164.1	116.9	47.2	18.601	10.152	4.803	2.621	28	8.6	0.000
Husk extension length (cm)																
Level	Station	Year	Variety-1	Variety-2	Cnt-1	Cnt-2	Mean-1	Mean-2	Mean_Diff	StDev-1	StDev-2	StErr-1	StErr-2	DF	t-Value	Prob_Pool
1. Over All			PHCHP	PHCND	25	25	2.3	5.0	-2.7	1.208	1.241	0.242	0.248	48	-7.7	0.000
2. Year		2005	PHCHP	PHCND	10	10	1.8	5.3	-3.5	1.229	0.949	0.389	0.300	18	-7.1	0.000
2. Year		2006	PHCHP	PHCND	15	15	2.6	4.7	-2.1	1.121	1.387	0.289	0.358	28	-4.6	0.000
Leaf length (cm)																
Level	Station	Year	Variety-1	Variety-2	Cnt-1	Cnt-2	Mean-1	Mean-2	Mean_Diff	StDev-1	StDev-2	StErr-1	StErr-2	DF	t-Value	Prob_Pool
1. Over All			PHCHP	PHCND	25	25	86.5	77.3	9.2	4.022	5.601	0.804	1.120	48	6.7	0.000
2. Year		2005	PHCHP	PHCND	10	10	89.9	81.5	8.4	2.283	2.677	0.722	0.847	18	7.6	0.000
2. Year		2006	PHCHP	PHCND	15	15	84.3	74.5	9.8	3.283	5.290	0.848	1.366	28	6.1	0.000
Tassel central spike length (cm)																
Level	Station	Year	Variety-1	Variety-2	Cnt-1	Cnt-2	Mean-1	Mean-2	Mean_Diff	StDev-1	StDev-2	StErr-1	StErr-2	DF	t-Value	Prob_Pool
1. Over All			PHCHP	PHCND	25	25	30.4	22.5	7.9	3.162	2.946	0.632	0.589	48	9.2	0.000
2. Year		2005	PHCHP	PHCND	10	10	32.9	25.0	7.9	2.378	1.886	0.752	0.596	18	8.2	0.000
2. Year		2006	PHCHP	PHCND	15	15	28.7	20.8	7.9	2.463	2.242	0.636	0.579	28	9.2	0.000

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United States Department of Agriculture, Agricultural Marketing Service  
 Science and Technology, Plant Variety Protection Office  
 National Agricultural Library Building, Room 400  
 Beltsville, MD 20705-2351  
 OBJECTIVE DESCRIPTION OF VARIETY  
 CORN (Zea mays L.)

Name of Applicant(s)		Variety Seed Source		Variety Name or Temporary Designation
Pioneer Hi-Bred International, Inc				PHCHP

Address (Street & No., or R.F.D. No., City, State, Zip Code and Country)		FOR OFFICIAL USE		PVPO Number
7301 NW 62nd Avenue, P.O. Box 85, Johnston, Iowa 50131-0085				#200700307

Place the appropriate number that describes the varietal characters typical of this inbred variety in the spaces below. Right justify whole numbers by adding leading zeroes if necessary. Completeness should be striven for to establish an adequate variety description. Traits designated by a "" are considered necessary for an adequate variety description and must be completed.

COLOR CHOICES (Use in conjunction with Munsell color code to describe all color choices; describe #25 and #26 in Comments section):

01. Light Green	06. Pale Yellow	11. Pink	16. Pale Purple	21. Buff	26. Other (Describe)
02. Medium Green	07. Yellow	12. Light Red	17. Purple	22. Tan	
03. Dark Green	08. Yellow-Orange	13. Cherry Red	18. Colorless	23. Brown	
04. Very Dark Green	09. Salmon	14. Red	19. White	24. Bronze	
05. Green-Yellow	10. Pink-Orange	15. Red & White	20. White Capped	25. Variegated (Describe)	

STANDARD INBRED CHOICES [Use the most similar (in background and maturity) of these to make comparisons based on grow-out trial data]:

Yellow Dent Families:		Yellow Dent (Unrelated):	Sweet Corn:
Family	Members	Co109, ND246	C13, Iowa5125, P39, 2132
B14	CM105, A632, B64, B68	Oh7, T232	
B37	B37, B76, H84	W117, W153R	Popcorn:
B73	N192, A679, B73, Nc268	W182BN	SG1533, 4722, HP301, HP7211
C103	Mo17, Va102, Va35, A682		
Oh43	A619, MS71, H99, Va26	White Dent:	Pipecorn:
WF9	W64A, A554, A654, Pa91	Cl66, H105, Ky228	Mo15W, Mo16W, Mo24W

1. TYPE: (describe intermediate types in "Comments" section)		Standard Inbred Name	MO17
3 (1=Sweet, 2=Dent, 3=Flint, 4=Flour, 5=Pop, 6=Ornamental, 7=Pipecorn)		2 Type	
2. REGION WHERE DEVELOPED IN THE U.S.A.:		Standard Seed Source	PI 558532
2 (1=N.West, 2=N.Central, 3=N.East, 4=S.East, 5=S.Central, 6=S.West, 7=Other)		Region	

3. MATURITY (In Region Best Adaptability; show Heat Unit formula in "Comments" section):

DAYS	HEAT UNITS		DAYS	HEAT UNITS
60	1,355.0	From emergence to 50% of plants in silk	64	1,494.4
60	1,355.0	From emergence to 50% of plants in pollen	60	1,373.0
2	56	From 10% to 90% pollen shed	2	58
---	---	From 50% silk to optimum edible quality	---	---
---	---	From 50% silk to harvest at 25% moisture	---	---

4. PLANT:	St.Dev.	Sample Size	Mean	St.Dev.	Sample Size
219.5 cm Plant Height (to tassel tip)	14.69	25	224.9	14.55	25
69.2 cm Ear Height (to base of top ear node)	11.19	25	87.6	11.94	25
17.1 cm Length of Top Ear Internode	2.17	25	16.6	2.43	25
0.0 Average Number of Tillers	0.02	5	0.0	0.00	5
1.0 Average Number of Ears per Stalk	0.10	5	1.0	0.03	5
3 Anthocyanin of Brace Roots: 1=Absent, 2=Faint, 3=Moderate, 4=Dark			3		

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5. LEAF	St.Dev.	Sample Size	Mean	St.Dev.	Sample Size
9.7 cm Width of Ear Node Leaf	0.69	25	9.0	0.65	25
86.5 cm Length of Ear Node Leaf	4.02	25	66.8	6.17	25
6.5 Number of leaves above top ear	0.82	25	5.4	0.64	25
26.8 Degrees Leaf Angle	4.79	25	30.4	3.43	25
(Measure from 2nd leaf above ear at anthesis to stalk above leaf)					
4 Leaf Color (Munsell Code) 5GY3.5			4 (Munsell Code) 5GY34		
3 Leaf Sheath Pubescence (Rate on scale from 1=none to 9=like peach fuzz)			3		
— Marginal Waves (Rate on scale from 1=none to 9=many)			—		
— Longitudinal Creases (Rate on scale from 1=none to 9=many)			—		

6. TASSEL:	St.Dev.	Sample Size	Mean	St.Dev.	Sample Size
4.2 Number of Primary Lateral Branches	1.64	25	5.4	1.08	25
33.0 Degrees Branch Angle from Central Spike	8.15	25	34.6	7.71	25
62.0 cm tassel Length	3.35	25	63.4	3.64	25
(from top leaf collar to tassel tip)					
6 Pollen Shed (Rate on scale from 0=male sterile to 9=heavy shed)			6		
17 Anther Color (Munsell Code) 2.5R2.5			1 (Munsell Code) 2.5GY88		
2 Glume Color (Munsell Code) 7.5GY5.5			2 (Munsell Code) 5GY58		
1 Bar Glumes (Glume Bands): 1=Absent, 2=Present			1		

7a. EAR (Unhusked Data):	St.Dev.	Sample Size	Mean	St.Dev.	Sample Size
1 Silk Color (3 days after emergence) (Munsell Code) 5GY9.4			1 Munsell Code 2.5GY86		
2 Fresh Husk Color (25 days after 50% silking) (Munsell Code) 5GY6.5			2 Munsell Code 5GY68		
21 Dry Husk Color (65 days after 50% silking) (Munsell Code) 2.5Y8.5.4			21 Munsell Code 2.5Y8.5.4		
1 Position of Ear at Dry Husk Stage: 1=Upright, 2=Horizontal, 3=Pendent			1		
4 Husk Tightness (Rate on scale from 1=very loose to 9=very tight)			7		
2 Husk Extension (at harvest): 1=Short(ears exposed), 2=Medium (<8cm), 3=Long (8-10cm beyond ear tip), 4=Very Long (>10cm)			2		

7b. EAR (Husked Ear Data)	St. Dev.	Sample Size	Mean	St.Dev.	Sample Size
17.9 cm Ear Length	0.95	25	18.4	1.12	25
46.5 mm Ear Diameter at mid-point	1.45	25	36.6	1.76	25
163.7 gm Ear Weight	16.37	25	99.0	12.55	25
16.3 Number of Kernel Rows	1.25	25	10.7	0.98	25
2 Kernel Rows: 1=Indistinct, 2=Distinct			2		
2 Row Alignment: 1=Straight, 2=Slightly Curved, 3=Spiral			1		
10.9 cm Shank Length	1.86	25	9.0	1.91	25
2 Ear Taper: 1=Slight cyl., 2=Average slightly con., 3=Extreme conical			2		

8. KERNEL (Dried):	St.Dev.	Sample Size	Mean	St.Dev.	Sample Size
11.2 mm Kernel Length	0.55	25	10.6	0.65	25
8.9 mm Kernel Width	0.67	25	8.8	0.62	25
5.5 mm Kernel Thickness	0.65	25	5.1	0.86	25
73.6 % Round Kernels (Shape Grade)	8.08	5	61.5	14.07	5
1 Aleurone Color Pattern: 1=Homozygous, 2=Segregating (describe)			1 (describe)		
7 Aleurone Color (Munsell Code) 10YR7.14			7 Munsell Code 10YR814		
7 Hard Endosperm Color (Munsell Code) 10YR6.10			7 Munsell Code 10YR714		
3 Endosperm Type: 1=Sweet(su1), 2=Extra Sweet(sh2), 3=Normal Starch, 4=High Amylose Starch, 5=Waxy Starch, 6=High Protein, 7=High Lysine, 8=Super Sweet (se), 9=High Oil, 10=Other			3 (describe)		
32.2 gm Weight per 100 kernels (unsized sample)	2.77	5	33.4	1.82	5

9. COB:	St.Dev.	Sample Size	Mean	St.Dev.	Sample Size
28.2 mm Cob Diameter at mid-point	1.07	25	19.2	0.88	25
10 Cob Color (Munsell Code) 10R4.8			11 Munsell Code 2.5YR56		

Application Variety Data

Standard Inbred Data

Note: Use chart on first page to choose color codes for color traits



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## 10. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank

if not tested; leave Race or Strain Options blank if polygenic):

## A. Leaf Blights, Wilts, and Local Infection Diseases

☐ Anthracnose Leaf Blight (*Colletotrichum graminicola*)7 Common Rust (*Puccinia sorghi*)9 Common Smut (*Ustilago maydis*)Eyespot (*Kabatiella zeae*)8 Goss's Wilt (*Clavibacter michiganense* spp. *nebraskensis*)6 Gray Leaf Spot (*Cercospora zeae-maydis*)☐ Helminthosporium Leaf Spot (*Bipolaris zeicola*)

Race \_\_\_\_\_

3 Northern Leaf Blight (*Exserohilum turcicum*)

Race \_\_\_\_\_

Southern Leaf Blight (*Bipolaris maydis*)

Race \_\_\_\_\_

Southern Rust (*Puccinia Polysora*)6 Stewart's Wilt (*Erwinia stewartii*)☐ Other (Specify) \_\_\_\_\_

## B. Systemic Diseases

Corn Lethal Necrosis (MCMV and MDMV)

9 Head Smut (*Sphacelotheca reiliana*)☐ Maize Chlorotic Dwarf Virus (MCDV)☐ Maize Chlorotic Mottle Virus (MCMV)

Maize Dwarf Mosaic Virus (MDMV)

Strain \_\_\_\_\_

☐ Sorghum Downy Mildew of Corn (*Peronosclerospora sorghi*)☐ Other (Specify) \_\_\_\_\_

## C. Stalk Rots

5 Anthracnose Stalk Rot (*Colletotrichum graminicola*)☐ Diplodia Stalk Rot (*Stenocarpella maydis*)Fusarium Stalk Rot (*Fusarium moniliforme*)☐ Gibberella Stalk Rot (*Gibberella zeae*)☐ Other (Specify) \_\_\_\_\_

## D. Ear and Kernel Rots

☐ Aspergillus Ear and Kernel Rot (*Aspergillus flavus*)6 Diplodia Ear Rot (*Stenocarpella maydis*)5 Fusarium Ear and Kernel Rot (*Fusarium moniliforme*)Gibberella Ear Rot (*Gibberella zeae*)☐ Other (Specify) \_\_\_\_\_☐ Anthracnose Leaf Blight

Common Rust

☐ Common Smut

Eyespot

Goss's Wilt

5 Gray Leaf Spot☐ Helminthosporium Leaf Spot Race \_\_\_\_\_7 Northern Leaf Blight Race \_\_\_\_\_

Southern Leaf Blight Race \_\_\_\_\_

Southern Rust

6 Stewart's Wilt☐ Other (Specify) \_\_\_\_\_

Corn Lethal Necrosis

8 Head Smut☐ Maize Chlorotic Dwarf Virus☐ Maize Chlorotic Mottle Virus

Maize Dwarf Mosaic Virus Strain \_\_\_\_\_

☐ Sorghum Downy Mildew of Corn☐ Other (Specify) \_\_\_\_\_

Anthracnose Stalk Rot

☐ Diplodia Stalk Rot☐ Fusarium Stalk Rot☐ Gibberella Stalk Rot☐ Other (Specify) \_\_\_\_\_☐ Aspergillus Ear & Kernel Rot3 Diplodia Ear Rot

Fusarium Ear &amp; Kernel Rot

Gibberella Ear Rot

☐ Other (Specify) \_\_\_\_\_

Note: Use chart on first page to choose color codes for color traits.

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## 11. INSECT RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); Leave blank

if not tested	St. Dev.	Sample Size		St. Dev.	Sample Size
<input type="checkbox"/> Banks Grass Mite ( <i>Oligonychus pratensis</i> )				<input type="checkbox"/> Banks Grass Mite	
Corn Earworm ( <i>Helicoverpa zea</i> )				Corn Earworm	
<input type="checkbox"/> Leaf Feeding				<input type="checkbox"/> Leaf Feeding	
<input type="checkbox"/> Silk Feeding _____ mg larval wt.				<input type="checkbox"/> Silk Feeding _____ mg larval wt.	
<input type="checkbox"/> Ear Damage				<input type="checkbox"/> Ear Damage	
<input type="checkbox"/> Corn Leaf Aphid ( <i>Rhopalosiphum maidis</i> )				<input type="checkbox"/> Corn Leaf Aphid	
<input type="checkbox"/> Corn Sap Beetle ( <i>Carpophilus dimidiatus</i> )				<input type="checkbox"/> Corn Sap Beetle	
European Corn Borer ( <i>Ostrinia nubilalis</i> )				European Corn Borer	
<input type="checkbox"/> 1 st Generation (Typically Whorl Leaf Feeding)				<input type="checkbox"/> 1 st Generation	
<input type="checkbox"/> 2 nd Generation (Typically Leaf Sheath-Collar Feeding)				<input type="checkbox"/> 2 nd Generation	
<input type="checkbox"/> Stalk Tunneling: _____ cm tunneled/plant				<input type="checkbox"/> Stalk Tunneling: _____ cm tunneled/plant	
Fall Armyworm ( <i>Spodoptera frugiperda</i> )				Fall Armyworm	
<input type="checkbox"/> Leaf-Feeding				<input type="checkbox"/> Leaf-Feeding	
<input type="checkbox"/> Silk-Feeding _____ mg larval wt.				<input type="checkbox"/> Silk-Feeding _____ mg larval wt.	
<input type="checkbox"/> Maize Weevil ( <i>Sitophilus zeamais</i> )				<input type="checkbox"/> Maize Weevil	
<input type="checkbox"/> Northern Rootworm ( <i>Diabrotica barberi</i> )				<input type="checkbox"/> Northern Rootworm	
<input type="checkbox"/> Southern Rootworm ( <i>Diabrotica undecimpunctata</i> )				<input type="checkbox"/> Southern Rootworm	
Southwestern Corn Borer ( <i>Diatraea grandiosella</i> )				Southwestern Corn Borer	
<input type="checkbox"/> Leaf Feeding				<input type="checkbox"/> Leaf Feeding	
<input type="checkbox"/> Stalk Tunneling: _____ cm tunneled/plant				<input type="checkbox"/> Stalk Tunneling: _____ cm tunneled/plant	
<input type="checkbox"/> Two-spotted Spider Mite ( <i>Tetranychus urticae</i> )				<input type="checkbox"/> Two-spotted Spider Mite	
<input type="checkbox"/> Western Rootworm ( <i>Diabrotica virgifera virgifera</i> )				<input type="checkbox"/> Western Rootworm	
<input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Other (Specify) _____	

## 12. AGRONOMIC TRAITS:

<u>6</u> Stay Green (at 65 days after anthesis) (Rate on scale from 1=worst to 9=excellent)		<u>3</u> Stay Green
% Dropped Ears (at 65 days after anthesis)		% Dropped ears
<input type="checkbox"/> % Pre-anthesis Brittle Snapping		<input type="checkbox"/> % Pre-anthesis Brittle Snapping
<u>15</u> % Pre-anthesis Root Lodging		<u>5</u> % Pre-anthesis Root Lodging
% Post-anthesis Root Lodging (at 65 days after anthesis)		Post-anthesis Root Lodging
<u>7,645.0</u> Kg/ha Yield of Inbred Per Se (at 12-13% grain moisture)		<u>4,422.0</u> Yield

## 13. MOLECULAR MARKERS: (0=data unavailable; 1=data available but not supplied; 2=data supplied.)

1 Isozymes \_\_\_\_\_ RFLP's \_\_\_\_\_ RAPD's \_\_\_\_\_ Other (Specify) \_\_\_\_\_

## REFERENCES:

- Butler, D.R. 1954. A System for the Classification of Corn Inbred Lines. PhD Thesis, Ohio University.
- Emerson, R.A., G.W. Beadle, and A.C. Fraser, 1935. A summary of Linkage Studies in Maize. Cornell A.E.S., Mem. 180.
- Farr, D.F., G.F. Bills, G.P. Chamuris, A.Y. Rossman. 1989. Fungi on Plant Products in the United States. The American Phytopathological Society, St. Paul, MN.
- Inglett, G.E. (Ed) 1970. Corn: Culture, Processing, Products. Avi Publishing Company, Westpoint, CT.
- Jugenheimer, R.W. 1976. Corn: Improvement, Seed Production, and Uses. John Wiley & Sons, New York.
- McGee, D.C. 1988. Maize Diseases. APS Press, St. Paul, MN. 150 pp.
- Munsell Color Chart for Plant Tissues. Macbeth. P.O. Box 230. Newburgh, N.Y. 12551-0230
- The Mutants of Maize. 1968. Crop Science Society of America, Madison, WI.
- Shurtleff, M.C. 1980. Compendium of Corn Diseases. APS Press, St. Paul, MN. 105 pp.
- Sprague, G.F., and J.W. Dudley (Editors). 1988. Corn and Corn Improvement, Third Edition. Agronomy Monograph 18. ASA, CSSA, SSSA, Madison, WI.
- Stringfield, G.H. Maize Inbred Lines of Ohio A.E.S., Bul. 831. 1959.
- U.S. Department of Agriculture 1936, 1937. Yearbook.

## COMMENTS (e. g. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit D)

Insect, disease, brittle snapping and root lodging data are collected mainly from environment where variability for the trait can be obtained within the experiment.

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## CLARIFICATION OF DATA IN EXHIBITS B AND C

Please note the data presented in Exhibit B and C, "Objective Description of Variety," are collected primarily at Johnston and Dallas Center, Iowa. The data in Tables 1A and 1B are from two sample t-tests using data collected in Johnston and Dallas Center, IA. These traits in exhibit B collectively show distinct differences between the two varieties.

Our experimental design was set up in a typical complete block design commonly used in agricultural corn research experiments with one replication grown at each location. The experiment procedures generally involve three locations/environments with different planting dates, planted in 17.42 ft. rows with 2 rows for each variety. Approximately 24-30 plants emerged in each of 2 rows for a total of around 48 to 60 plants being evaluated at each location and 144 to 180 plants across locations. For plant level traits, we sampled 5 representative plants from the 2 rows of the 2 row plot (group) of plants at each location. For plot level traits we evaluated the 2 row plot (group) and gave a representative score or average on the 48-60 plants in the group within an experiment. One of the 3 locations was dropped in 2005 due to poor emergence and field conditions.

Month	GROWING DEGREE UNITS (GDU's)				PRECIPITATION (Inches)			
	2005		2006		2005		2006	
	D. Center	Johnston	D. Center	Johnston	D. Center	Johnston	D. Center	Johnston
May	356	388	390	460	5.04	6.63	1.23	1.22
June	677	729	643	667	1.52	6.85	0.37	1.08
July	711	788	779	816	2.84	5.02	5.19	5.39
August	626	725	671	754	2.31	1.98	5.85	4.7
September	526	585	361	417	2.01	2.81	4.59	3.98
TOTAL	2896	3215	2844	3114	13.72	23.29	17.23	16.37

YEAR	PLANTING DATES		
	DC	JH-1	JH-2
2005	6-May	3-May	10-May
2006	12-May	4-May	10-May

Calculate GDU's

Growing Degree Units use the following formula:  $GDU = ((T1+T2)/2)-50$

- Where T1 = minimum temperature for a given day with 50 degrees Fahrenheit as the minimum temperature used and 86 degrees Fahrenheit is the maximum temperature used.
- Where T2 = maximum temperature for a given day with 86 degrees Fahrenheit as the maximum temperature used and 50 degrees Fahrenheit is the minimum temperature used.

GDU's are calculated each day and accumulated (summed) over certain number of days.

NOTE: In general, cases where less than 10 observations are presented the trait was collected at the plot level as it has been done in the past. This means many more plants were visually evaluated according to the procedure outlined above, and then a score of the "population" of the plants was recorded for each location. We have adjusted our current process to sample at least 15 plants for plant-level traits at a location.

2/25/10 JMS



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U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP**

1. NAME OF APPLICANT(S)  <b>PIONEER HI-BRED INTERNATIONAL, INC.</b>	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME  <b>PHCHP</b>
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)  <b>7301 NW 62<sup>nd</sup> AVENUE P.O. BOX 85 JOHNSTON, IA 50131-0085</b>	5. TELEPHONE (include area code)  <b>515-270-4051</b>  7. PVPO NUMBER  <b>#200700307</b>	6. FAX (include area code)  <b>515-253-2125</b>

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain: ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☒ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

Pioneer Hi-Bred International, Inc. (PHI), Des Moines, Iowa, and/or its wholly owned subsidiary Pioneer Overseas Corporation (POC), Des Moines, Iowa, is the employer of the plant breeders involved in the selection and development of PHCHP. Pioneer Hi-Bred International and/or Pioneer Overseas Corporation has the sole rights and ownership of PHCHP pursuant to written contracts that assign all rights in the variety to PHI and/or POC at the time such variety was created. No rights to this variety are retained by any individuals.

**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14<sup>th</sup> and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal employment opportunity provider and employer.

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According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

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**U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705**

**EXHIBIT F  
DECLARATION REGARDING DEPOSIT**

NAME OF OWNER (S)  <b>Pioneer Hi-Bred International, Inc.</b>	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)  <b>7301 NW 62<sup>nd</sup> Avenue Johnston, IA 50131-0085</b>	TEMPORARY OR EXPERIMENTAL DESIGNATION  VARIETY NAME  <b>PHCHP</b>
NAME OF OWNER REPRESENTATIVE (S)  <b>Steven R. Anderson</b>	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)  <b>7301 NW 62<sup>nd</sup> Avenue Johnston, IA 50131-0085</b>	FOR OFFICIAL USE ONLY  PVPO NUMBER  <b>#200700307</b>

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

  
Signature

5-4-2007  
Date

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